

## 30-1042: Anti-Cytokeratin 18 Monoclonal Antibody (Clone:DC-10)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	DC-10
<b>Application :</b>	ELISA,IHC,FACS,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	KRT18
<b>Gene ID :</b>	3875
<b>Uniprot ID :</b>	P05783
<b>Format :</b>	Purified
<b>Alternative Name :</b>	KRT18,CYK18,PIG46
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	Human breast carcinoma cell line PMC-42.

### Description

Cytokeratins are a subfamily of intermediate filaments and characterized by remarkable biochemical diversity. Cytokeratins are represented in epithelial tissues by at least 20 different polypeptides, molecular weight between 40 kDa and 68 kDa. The individual cytokeratin polypeptides are designated 1 to 20 and divided into the type I (acidic cytokeratins 9-20) and type II (basic to neutral cytokeratins 1-8) families. Cytokeratin 18 belongs to type I family (acidic cytokeratins).

### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

### Application Note

Western blotting: Recommended dilution: 1-2 µg/ml.

Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/ml; positive tissue: colon, skin.

Immunocytochemistry: positive control: MCF-7 human breast adenocarcinoma cell line, HeLa human cervix carcinoma cell line.

ELISA: Positive control: MCF-7 human breast adenocarcinoma cell line; the antibody DC-10 has been tested as the detection antibody in a sandwich ELISA for analysis of Cytokeratin 18 in combination with the antibody C-04.

Flow cytometry: Recommended dilution: 1-4 µg/ml. Intracellular staining.

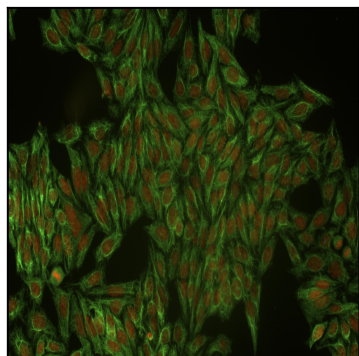


Figure-1: Immunocytochemistry staining of cytokeratin 18 in Hep-2 cells using mouse monoclonal antibody DC-10 (30-1042, diluted 1:400), detected with GAM IgG-Alexa Fluor®488 (diluted 1:200; green), cell nuclei stained with PI (1µg/ml; orange).

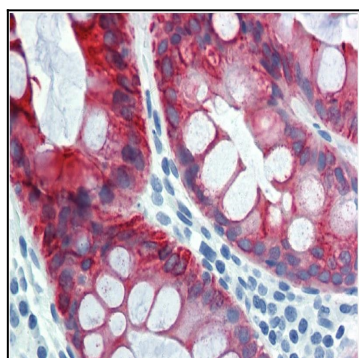


Figure-2: Immunohistochemistry staining of human colon (paraffin sections) using anti-cytokeratin 18 (clone DC-10).

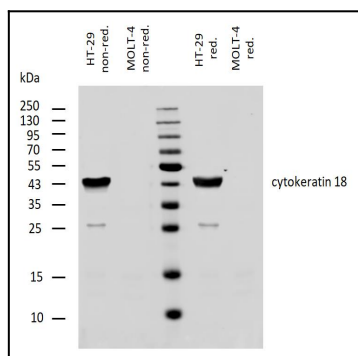


Figure-3: Western blotting analysis of human cytokeratin 18 using mouse monoclonal antibody DC-10 on lysates of HT-29 cell line and MOLT-4 cell line (cytokeratin non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-cytokeratin 18 monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for cytokeratin 18 at approximately 46 kDa, and its proteolytic fragment at approximately 25 kDa.